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(54) ENTERIC BACTERIUM CONTROLLING SUBSTANCE

(11) 1-117831 (A) (43) 10.5.1989 (19) JP
 (21) Appl. No. 62-275403 (22) 30.10.1987
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 (51) Int. Cl.⁴ A61K31/70, A61K31/72//C07H3/06

PURPOSE: To obtain the above substance containing a specific oligosaccharide as main ingredient and capable of selectively suppressing the growth of Clostridium perfringens and improving intestinal bacterium colony without suppressing the growth of Bifidobacterium.

CONSTITUTION: One or two or more kind of mixture (especially preferably tetramaltose) of maltotriose, maltotetraose, maltopentaose, maltohexaose and maltoheptaose are contained as main ingredients. The above-mentioned oligosaccharide is effective as an agent having low sweetness and the maltotriose is effective as a humid retaining agent and the maltotetraose is effective also for prevention of aging of food, surface gloss of food, etc., as well as capable of bringing out improving effect of taste and physical properties by adding the maltotetraose to various kind of foods. Further the maltotetraose is capable of having effects for suppressing growth of C. Perfringens and propagating Bifidobacterium.

(54) BIOLOGICALLY ACTIVE SUBSTANCE

(11) 1-117833 (A) (43) 10.5.1989 (19) JP
 (21) Appl. No. 62-273868 (22) 29.10.1987
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PURPOSE: To obtain a biologically active substance useful over various fields such as plant growth promoting agent, medicine and preservative, by heating Ca-containing raw material such as pearl.

CONSTITUTION: A Ca-containing raw material (especially pearl) such as a natural product, e.g., shell, coral, limestone, pearl or animal bone or CaSO₄, CaCO₃, or calcium phosphate is heated at 200~1,600°C (preferably 400~1,500°C) for 1~50hr to afford a biologically active substance, which is then thrown into water and active Ca is gradually eluted into water to provide the active Ca ion water. The Ca-containing raw material is press-molded directly, in form of powder, granule, flake, etc., or after adding kaolin, glass, ceramic, etc., thereto or after further adding a binder thereto and then heated. The above-mentioned substance is useful also as a health drug for maintaining health, agent for preventing propagation of laver from a fish net, etc.

(54) RELIEVING AGENT FOR RENAL TOXICITY BY ADMINISTRATION OF CYCLOSPORIN

(11) 1-117834 (A) (43) 10.5.1989 (19) JP
 (21) Appl. No. 62-273746 (22) 29.10.1987
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PURPOSE: To obtain a relieving agent containing a specific organoaluminum compound as an active ingredient for nephrotoxicity caused by cyclosporin administered in kidney transplantation.

CONSTITUTION: The above relieving agent containing a compound expressed by the formula [R₁~R₃ are H, lower alkyl, phenyl, etc.; X is OH, O-lower alkyl, amino or O-Y⁺ (Y is Na, K or compound, such as lysozyme or basic amino acid, having basic group)] as an active ingredient. This relieving agent is capable of reducing strong nephrotoxicity of cyclosporin without impairing immunosuppressive effects thereof administered in kidney transplantation. The administration form of the above-mentioned relieving agent may be oral or parenteral and can be adjusted to that of the cyclosporin. The dose thereof is preferably 20~200mg/kg/day.

